



6S8-GT

TRIPLE DIODE—HIGH-MU TRIODE

6S8-GT

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 ac or dc volts
Current. 0.3 amp

Direct Interelectrode Capacitances:*

Triode Unit:

Grid to Plate. 1.2 μf
Grid to Cathode. 2.0 μf
Plate to Cathode. 3.8 μf

Each Diode Unit:

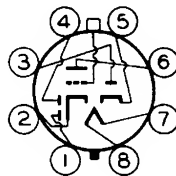
Plate to Cathode (Approx.). 1.0 μf

* With external shield.

Mechanical:

Mounting Position. Any
Maximum Overall Length. 3-5/8"
Maximum Seated Length. 3-1/16"
Maximum Diameter. 1-9/32"
Bulb T-9
Base Intermediate-Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW. 8CB

Pin 1—Diode
Plate No.3
Pin 2—Cathode of
Triode &
Diodes
Nos. 2 & 3
Pin 3—Diode
Plate No.1



Pin 4—Diode
Plate No.2
Pin 5—Cathode of
Diode No.1
Pin 6—Triode Plate
Pin 7—Heater
Pin 8—Heater
Cap — Triode Grid

TRIODE UNIT AMPLIFIER—Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts
PLATE DISSIPATION. 0.5 max. watt
PEAK HEATER—CATHODE VOLTAGE:
Heater negative with respect to cathode 90 max. volts
Heater positive with respect to cathode 90 max. volts

Characteristics:

Plate Voltage.	50	100	250	. . volts
Grid Voltage.	0	-1	-2	. . volts
Grid Resistor.	10	0	0	. megohms
Amplification Factor . .	85	100	100	
Plate Resistance	285000	110000	91000	. . ohms
Transconductance	300	900	1100	. . μmhos
Plate Current.	0.07	0.4	0.9	. . ma

AUGUST 29, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

6S8-GT



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TRIPLE DIODE—HIGH-MU TRIODE

DIODE UNITS

Maximum Ratings, Design-Center Values:

PLATE CURRENT (For Each Diode) 1.0 max. ma

Diode Considerations:

Diode units No.2 & No.3 and the triode unit have a common cathode, and diode unit No.1 has a separate cathode. Diodes No.1 (pins 3 & 5) and No.3 (pins 1 & 2) are recommended for use in FM detector applications, while diode No.2 (pins 4 & 2) is recommended for use as an AM detector.

Further consideration of these units, including diode curves, is given at the front of this section. Diode biasing of the triode unit of the 6S8-GT is not suitable.

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TENTATIVE DATA

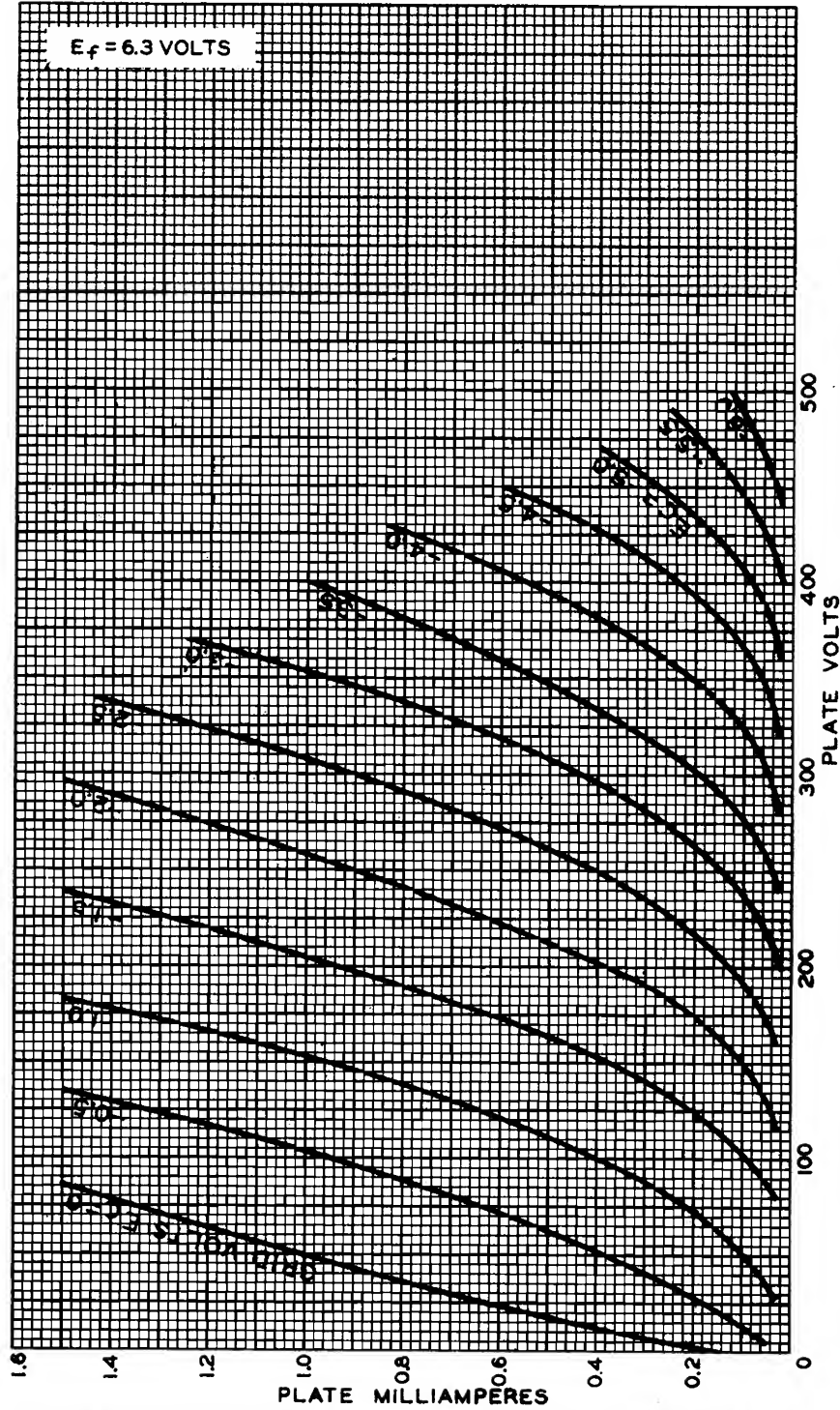


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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

6S8-GT

$E_f = 6.3$ VOLTS



JULY 25, 1947

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92CM-6876